

V-Twin Mfg.
Prestolite Type Electric Start Conversion Kit
Fits 1965-1969 FLH

VT No. 32-0005 (Standard) & 32-0013 (Chrome)

This is a custom application and rider safety depends on proper installation. This product should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.

Prestolite Starter Kit for VT No. 32-0005 & 32-0013 for 1965-69 FLH. Kit includes Prestolite starter, battery box, solenoid and related hardware, relay and wiring and complete instructions. Can be used as starter update. Your existing clutch drum should have starter ring gear attached. Order battery, side cover, top-strap separately.

Installation of this kit takes approximately 2 1/2 to 3 hours.

Instructions:

1. Remove seat. Disconnect the battery wires from the battery. Remove the ground wire first and discard. Remove present battery strap, cover and batter from motorcycle and discard.
2. Remove present battery carrier and battery carrier lower bracket. Remove rubber mount from battery carrier bracket and discard battery carrier and bracket. Retain rubber mount.
3. Remove starter cover plate, gasket and screws and discard.
4. Assemble starter mounting studs to primary chain case, by assembling two nuts tightened together on fine thread-end of stud to allow installation with socket. After installation of studs, remove nuts.
5. Insert starter shaft gear into starter shaft housing.
6. Assemble oil deflector plate on starter mounting studs with O-ring flange toward left side of motorcycle.
7. Assemble starter to studs using lock washers and nuts. A slight amount of grease on the nuts will retain them in a socket to assist installation.
8. Remove primary chain case cover, place pan under primary chain case to receive oil.
9. Remove starter solenoid hole cover and gasket and discard.
10. Remove oil tank mounting nuts and rubber mounts from frame brackets. Push tank to right side of motorcycle to gain access to shifter lever pivot bolt. Remove shifter lever pivot bolt from primary chain case.
11. Facing engine left side, position starter gear shifter lever behind starter ring gear and insert starter shaft through oil deflector into starter shaft housing, making sure that during insertion, gear shifter lever is engaged on starter shaft collar. Also make sure that the shaft fully seats into starter gear splines.
12. Assemble shifter lever pivot bolt through chain case hole into shifter lever.
13. Assemble black rubber boot to solenoid plunger. Drive 3/4" roll pin into plunger shaft center hole. Insert long spring and plunger into solenoid. With spacer between solenoid and chain case assemble solenoid gasket to primary chain case using lock washers and bolts, making sure that solenoid plunger is inserted through shifter lever hole.
14. Assemble short spring on solenoid plunger securing with retaining cup and pin, making sure that retaining cup open side is away from spring to prevent from falling out.
15. Assemble needle bearing into chain case cover, using suitable tool. Position thrust washer on end of starter shaft.
16. Assemble oil tank rubber mounts to frame brackets and secure oil tank to rubber mount using lock washers and nuts.
17. Assemble new battery carrier support bracket to transmission cover studs and starter motor stud using washers and nuts.
18. Assemble rubber mounts to frame down tube hole and battery carrier front side.
19. Position starter relay on battery carrier in rearward position to keep terminals from contacting starter motor and tighten.
20. Assemble battery carrier to oil tank using original bolts. Assemble nuts to rubber mounts.
21. Route wire between starter relay mounting and Starter stud. Secure with nuts.
22. Assemble feed wire from starter button to small terminal on starter relay.
23. Position solenoid boot over ends of heavy black wires. Assemble both heavy black wires to starter solenoid terminals.
24. Route wire from short solenoid terminal to starter terminal. Route wire from long solenoid terminal to battery positive terminal. Do not connect.
25. Route wire between starter relay and battery positive terminal location. Route wire between starter relay and starter solenoid small terminal. Solder the jumper wire to the terminal on the "Run-off" switch. With the wire attached, solder the other end of the jumper wire to starter switch. Remove the tape from the loose wire in handlebar housing and solder it to the other terminal on the start switch. If there is no wire see service manual.
26. Install battery in carrier with positive terminal toward front of motorcycle. Remove screw from battery positive terminal and discard. Use longer screw included in kit to connect 4 wires to batter negative terminal and motorcycle ground bracket welded to the frame using bolt and lock washer.
27. Assemble battery cover to battery using strap. Reassemble seal to motorcycle. For further information refer to the service manual.

